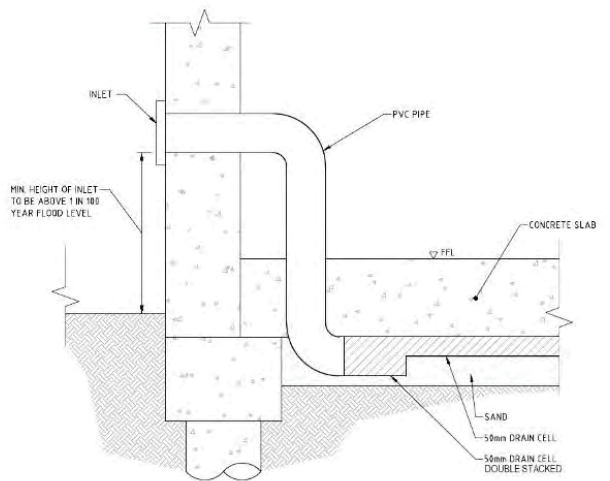


INLET DETAIL - MUSHROOM  
N.T.S



INLET DETAIL - Z TYPE  
N.T.S

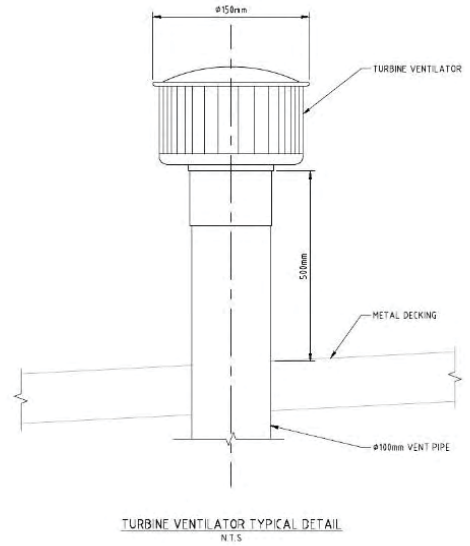
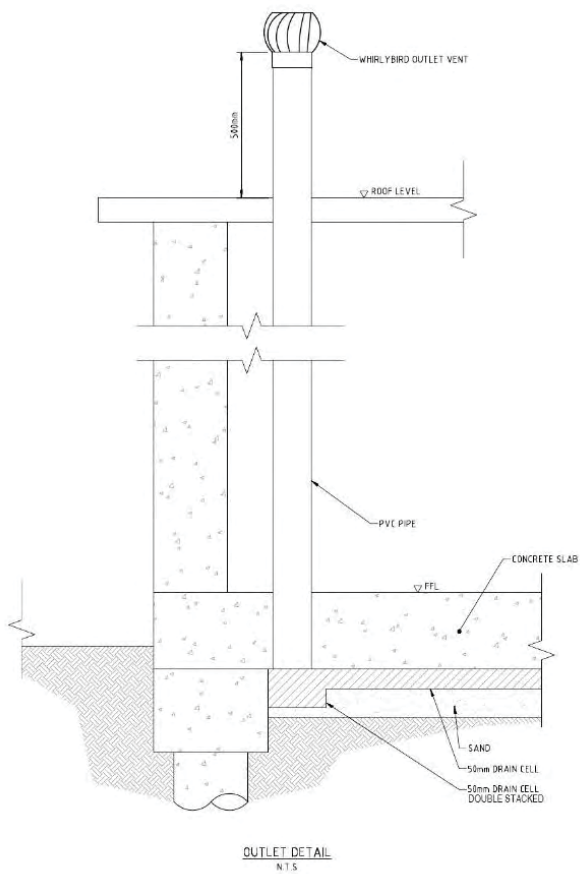


Title <b>INLET DETAILS</b>			
Client <b>ECOVE</b>	Project No. <b>DL 3620</b>	Figure No. <b>4</b>	Date <b>21/11/2016</b>
	Scale <b>As Shown</b>	Compiled <b>AP</b>	Revision <b>R00</b>

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**APPENDIX D FIGURE 5 – OUTLET DETAIL AND TURBINE VENTILATOR**

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**DLA**  
DLA Environmental Services  
A Pacific Environmental company

Sydney Office  
Phone (02) 9476 1765  
Fax (02) 9476 1557

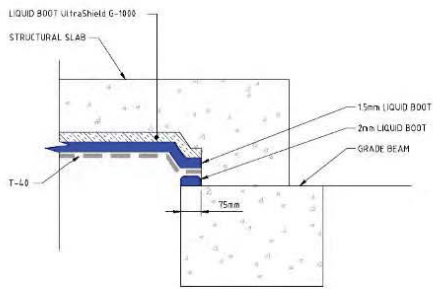
Maitland Office  
Phone (02) 4933 0001

Title <b>OUTLET DETAILS</b>			
Client <b>ECOVE</b>	Project No. <b>DL 3620</b>	Figure No. <b>5</b>	Date <b>21/11/2016</b>
	Scale <b>As Shown</b>	Compiled <b>AP</b>	Revision <b>R00</b>

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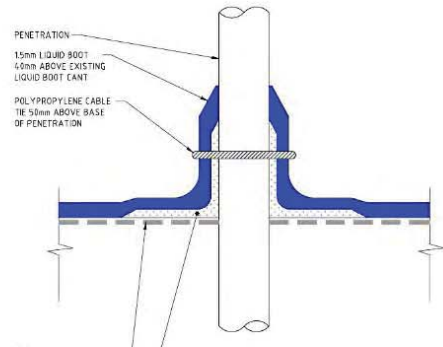
**APPENDIX D FIGURE 6 – GAS VAPOUR BARRIER DETAIL**

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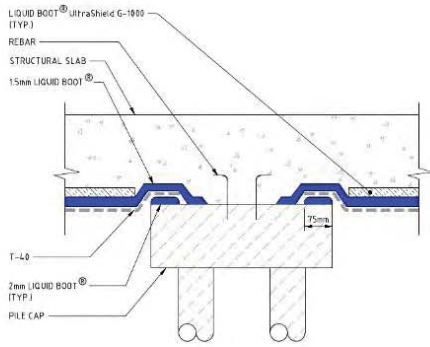
**GAS VAPOR BARRIER  
OVER FOOTING AND GRADE BEAMS**  
N.T.S

NOTE:  
BRING THE MEMBRANE 75mm ONTO THE FOOTINGS, THE  
GEOTEXTILE IS THEN ENCAPSULATED IN THE MEMBRANE.

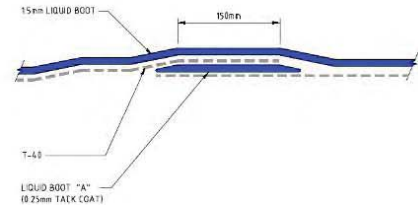


**GAS VAPOR BARRIER  
PENETRATIONS ON EARTH OR GRAVEL SUBGRADE**  
N.T.S

NOTE:  
ALL PENETRATIONS SHALL BE CLEANED AS PER  
SPECIFICATIONS BEFORE LIQUID BOOT IS APPLIED.



**GAS VAPOR BARRIER  
PILE CAP**  
N.T.S



**GAS VAPOR BARRIER  
MEMBRANE LAP JOINTS ON GEOTEXTILE**  
N.T.S



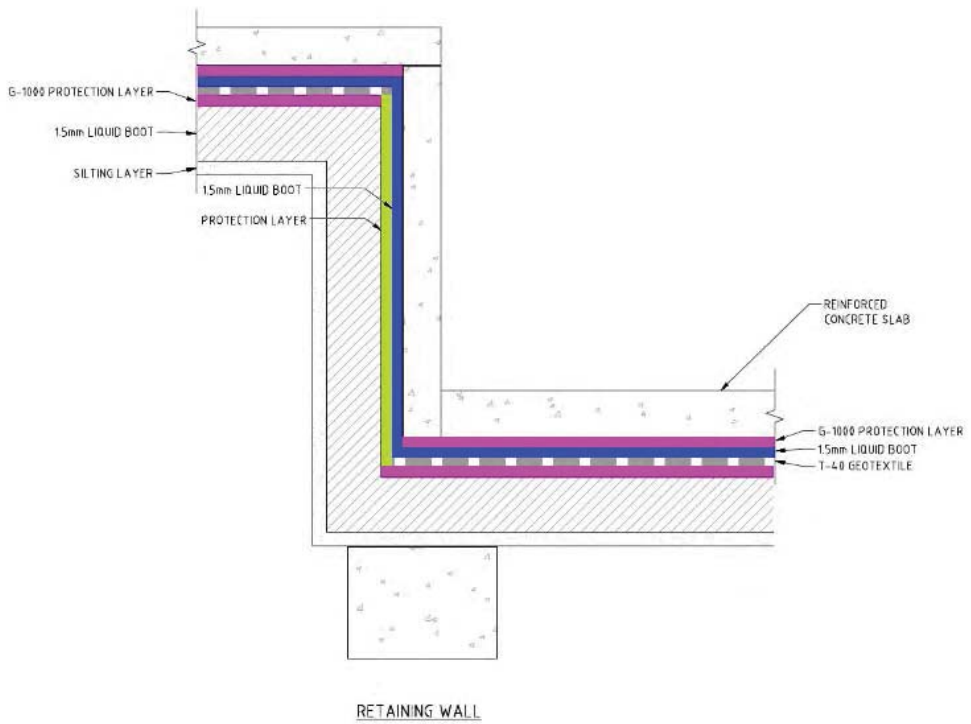
**GAS VAPOR BARRIER DETAILS**


Client <b>ECOVE</b>	Project No. <b>DL 3620</b>	Figure No. <b>6</b>	Date <b>21/11/2016</b>
	Scale <b>As Shown</b>	Compiled <b>AP</b>	Revision <b>R00</b>

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**APPENDIX D FIGURE 7 – RETAINING WALL DETAIL**

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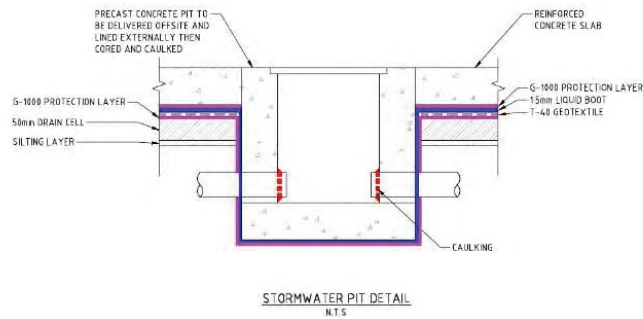
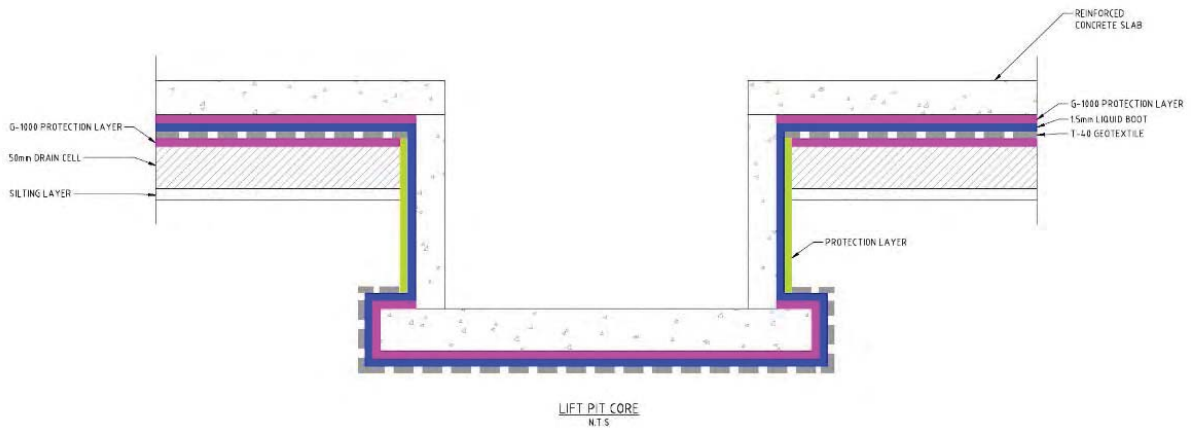
 DLG Environmental Services A Pacific Environmental company Sydney Office Phone (02) 9476 1765 Fax (02) 9476 1557 Maitland Office Phone (02) 4933 0001	Title <b>RETAINING WALL</b>			
	Client <b>ECOVE</b>	Project No. <b>DL 3620</b>	Figure No. <b>7</b>	Date <b>21/11/2016</b>
	Scale <b>As Shown</b>	Compiled <b>AP</b>	Revision <b>R00</b>	

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**APPENDIX D FIGURE 8 – LIFT PIT AND STORMWATER DETAIL**

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NOTE:  
HDPE PITS DO NOT REQUIRE LIQUID BOOT LINING



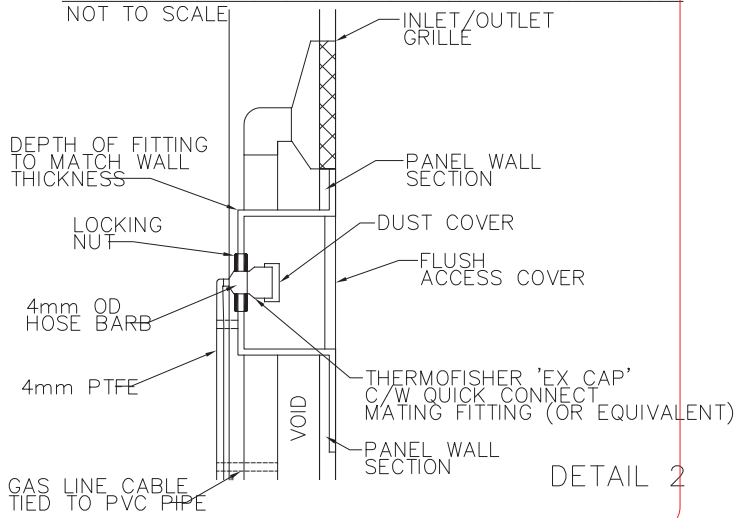
Title <b>Service Details</b>			
Client <b>ECOVE</b>	Project No. <b>DL 3620</b>	Figure No. <b>8</b>	Date <b>21/11/2016</b>
	Scale <b>As Shown</b>	Compiled <b>AP</b>	Revision <b>R00</b>

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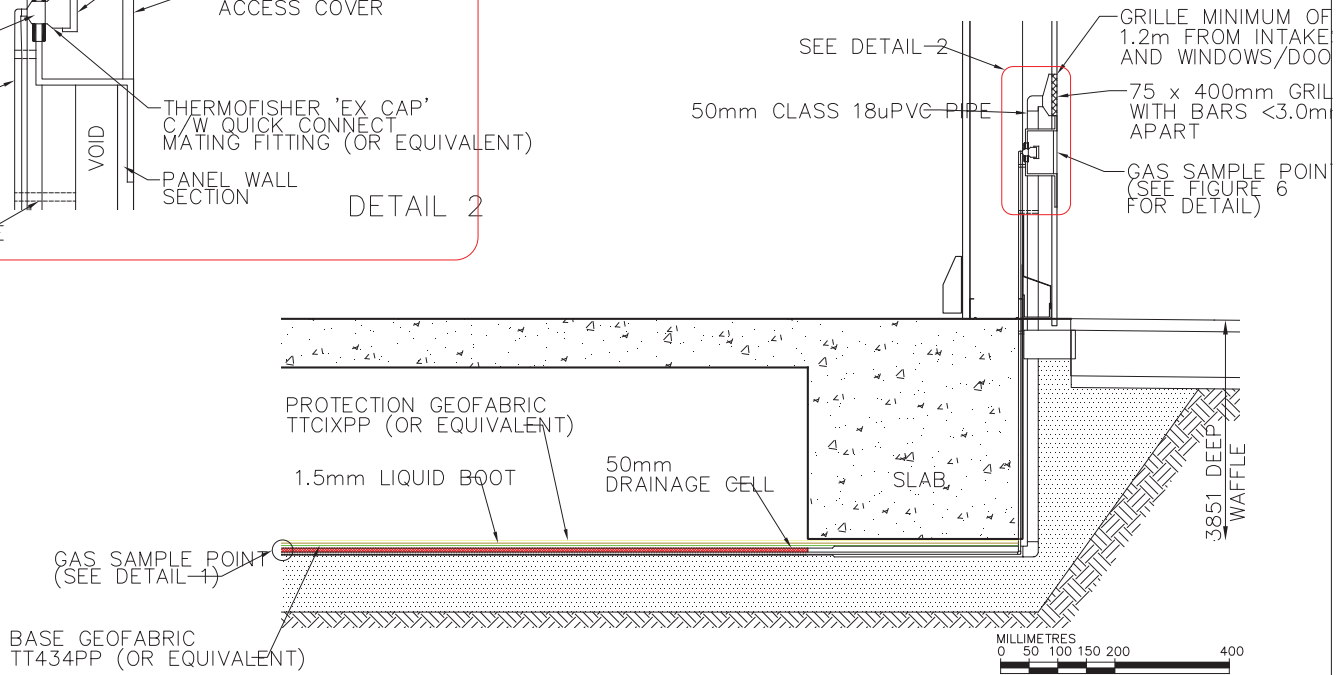
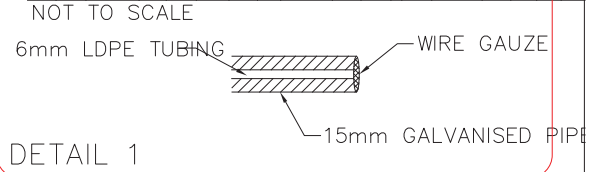
**APPENDIX D FIGURE 9 – INLET AND OUTLET DETAIL**

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### WALL SAMPLE POINT DETAIL



### GAS SAMPLE POINT DETAIL



ISSUE	DATE	AMENDMENTS	DRN	CKD
01	22.11.16	ORIGINAL ISSUE	SB	AJM

DLA ENVIRONMENTAL  
UNIT 3, 38 LEIGHTON PLACE  
HORNSBY, NSW 2077  
TEL: 02 9475 1765  
FAX:  
www.dlaenvironmental.com.au

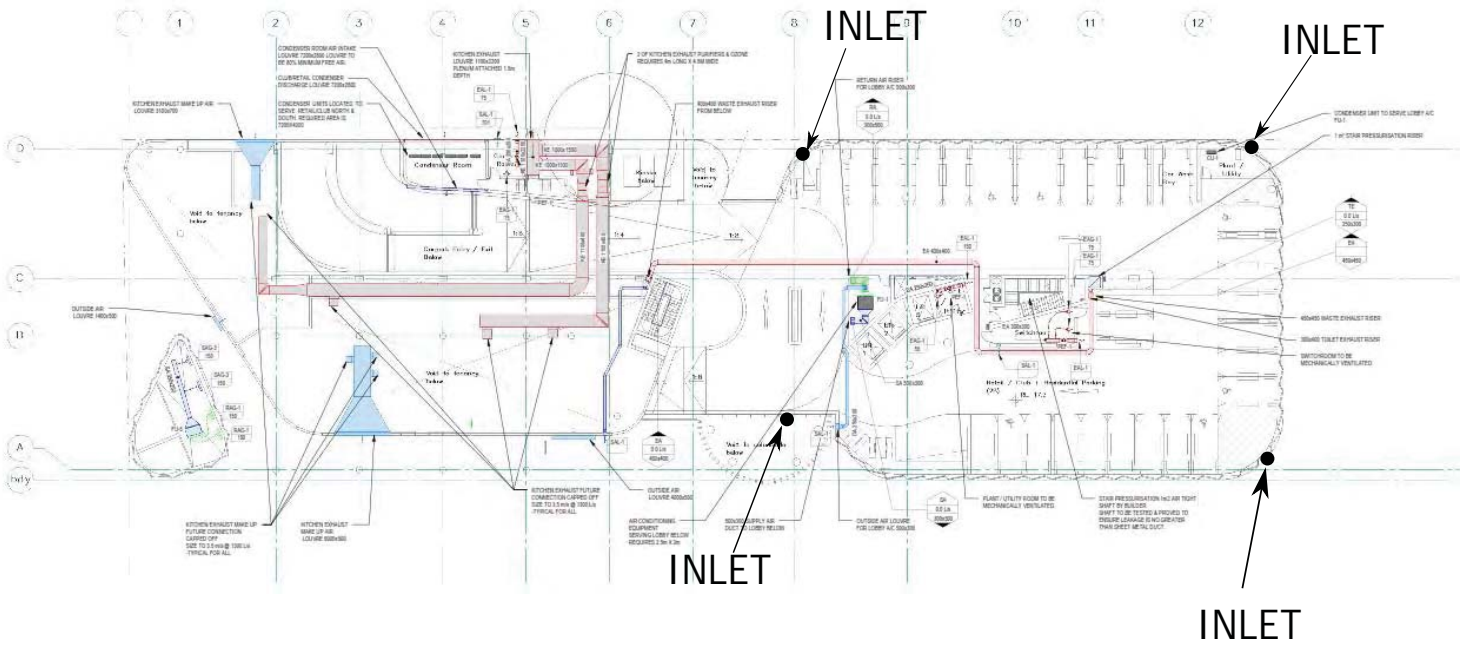
### EDGE FOOTING BEAM INLET/OUTLET TO SUB-SLAB VENTILATION SYSTEM GAS MITIGATION AREAS


SCALE: A3	DRAWN: SB	DATE: 22/11/16	CHECKED:	APPROVED:	FIG No: <b>FIGURE 9</b>
	REV: 01	DWG NAME:			

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**APPENDIX D FIGURE 10 – LEVEL 2 INLET DETAIL**

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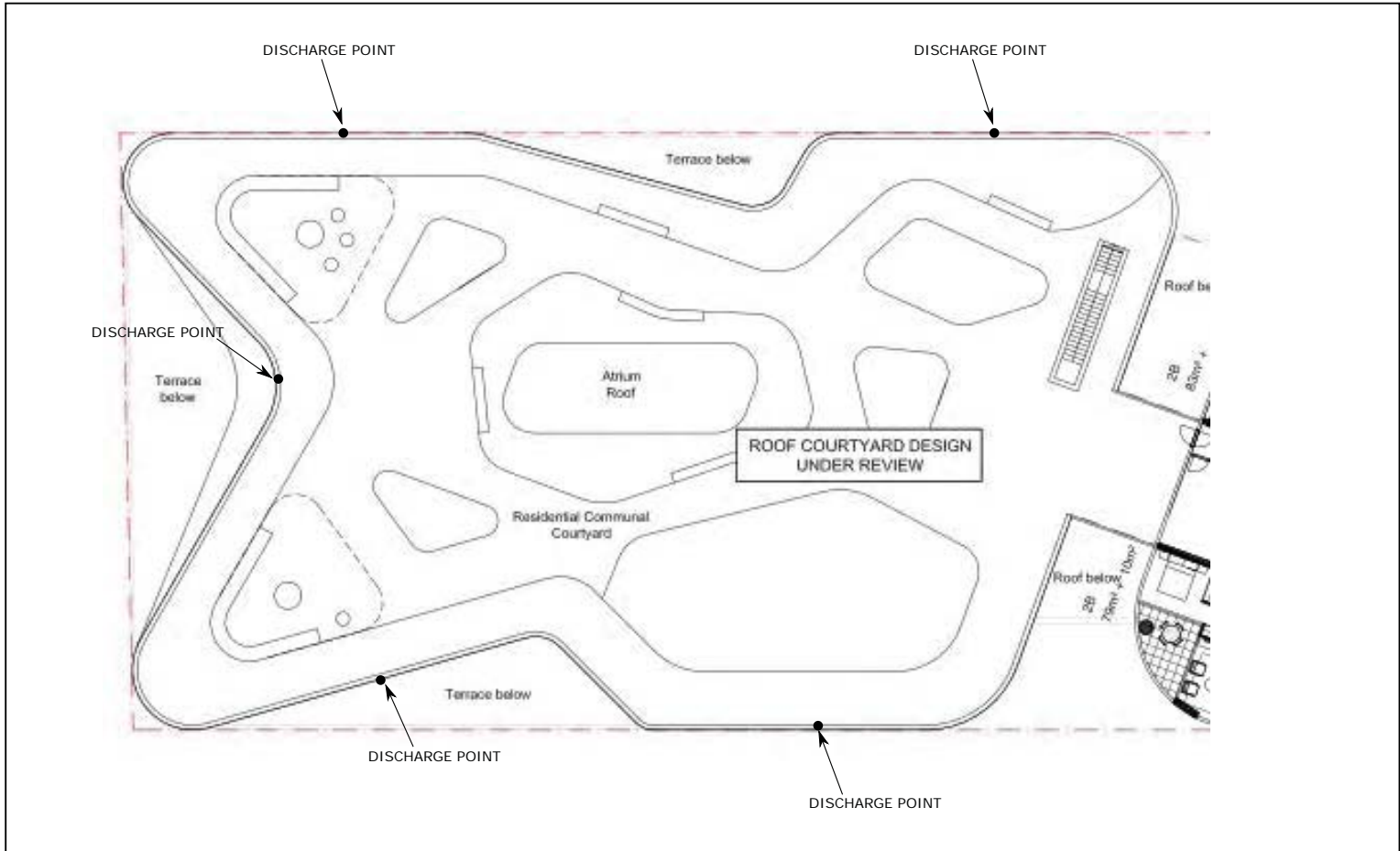


 DLA Environmental Services A Pacific Environmental Company Sydney Office Phone (02) 9476 1765 Fax (02) 9476 1557 Maitland Office Phone (02) 4933 0001	Title Proposed location for Inlets		Date 11/10/2016	
	Client ECOVE	Project No. DL 3620	Figure No. 10	Revision R00
		Scale As Shown	Compiled AP	

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**APPENDIX D FIGURE 11 – LEVEL 7 OUTLET DETAIL**

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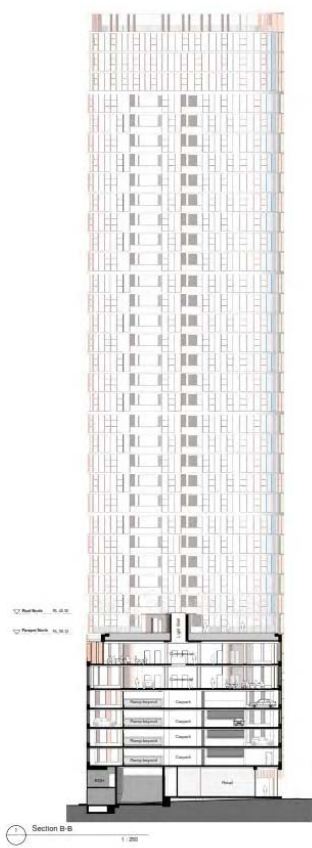
 <p>DLA Environmental Services A Pacific Environmental Company</p> <p>Sydney Office Phone (02) 9476 1765 Fax (02) 9476 1557</p> <p>Maitland Office Phone (02) 4933 0001</p>	<p>Title <b>LEVEL 7 DISCHARGE POINTS</b></p>			
	<p>Client <b>ECOVE</b></p>	<p>Project No. <b>DL 3620</b></p>	<p>Figure No. <b>11</b></p>	<p>Date <b>11/10/2016</b></p>
	<p>Scale <b>As Shown</b></p>	<p>Compiled <b>AP</b></p>	<p>Revision <b>R00</b></p>	

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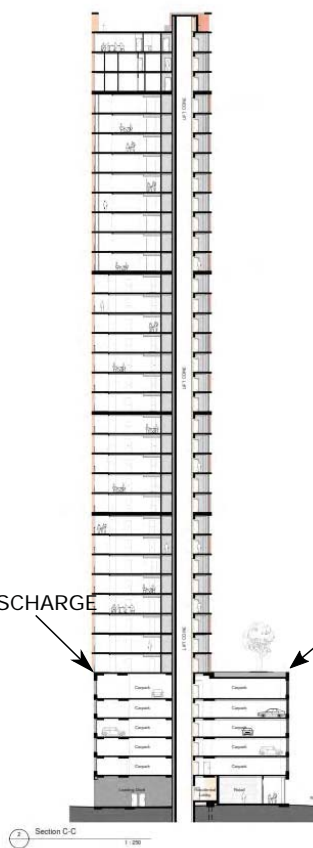
**APPENDIX D FIGURE 12 – LEVEL 7 OUTLET SECTION**

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- Top of Building
- Level 100
- Level 99
- Level 98
- Level 97
- Level 96
- Level 95
- Level 94
- Level 93
- Level 92
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- Level 90
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- Level 20
- Level 19
- Level 18
- Level 17
- Level 16
- Level 15
- Level 14
- Level 13
- Level 12
- Level 11
- Level 10



- Top of Building
- Level 100
- Level 99
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- Level 97
- Level 96
- Level 95
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- Level 17
- Level 16
- Level 15
- Level 14
- Level 13
- Level 12
- Level 11
- Level 10

VENT DISCHARGE POINT

VENT DISCHARGE POINT

Section B-B 1:200

Section C-C 1:200

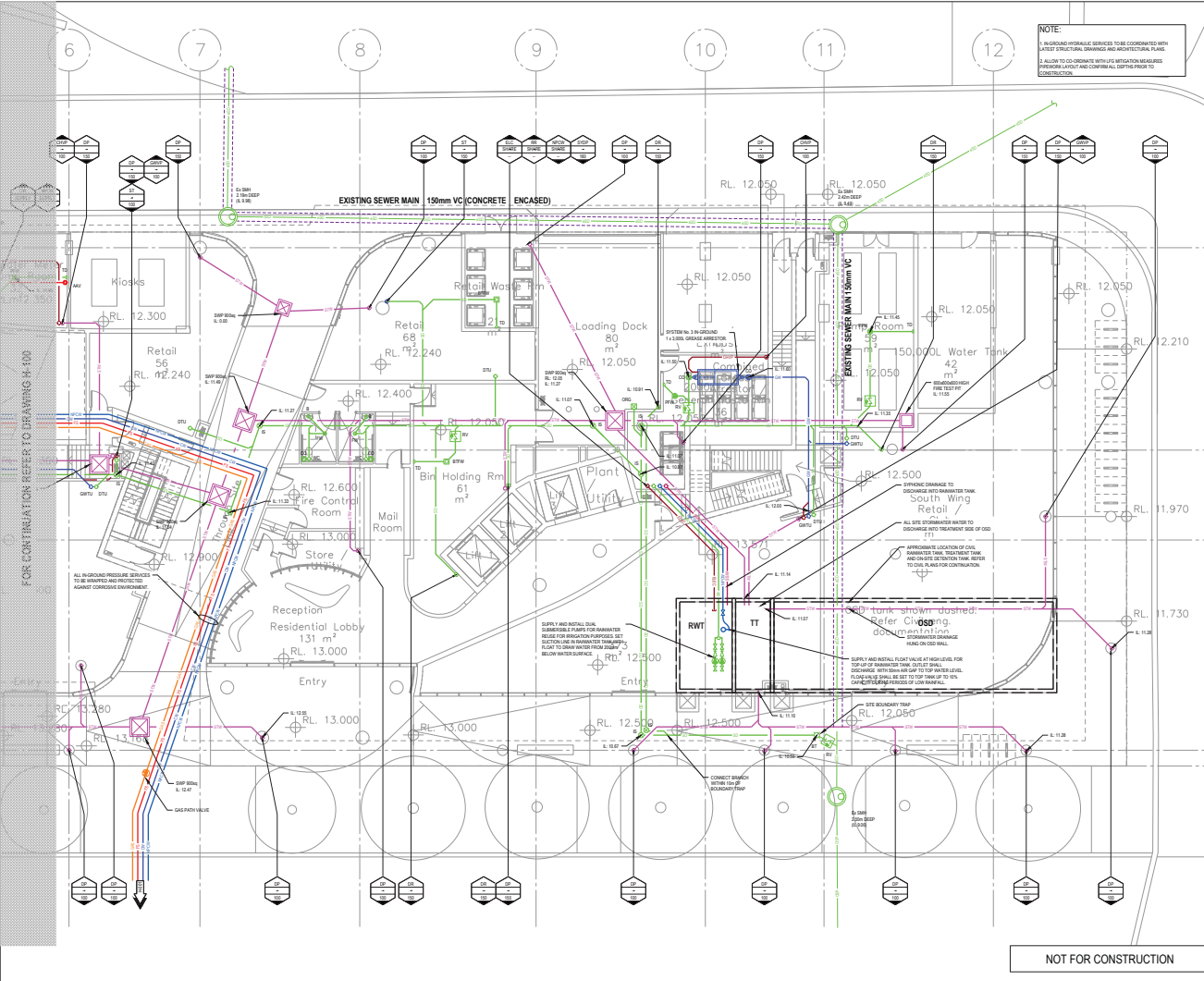


Title LEV 70 3 VCHARGI POE0S 7/ AC			
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	Al or I v@yews	Rel n8r p I N	Pr 0R0S P((

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**APPENDIX D FIGURE 13 – SERVICES SOUTH TOWER**

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FOR CONTINUATION REFER TO DRAWING H-100

NOT FOR CONSTRUCTION

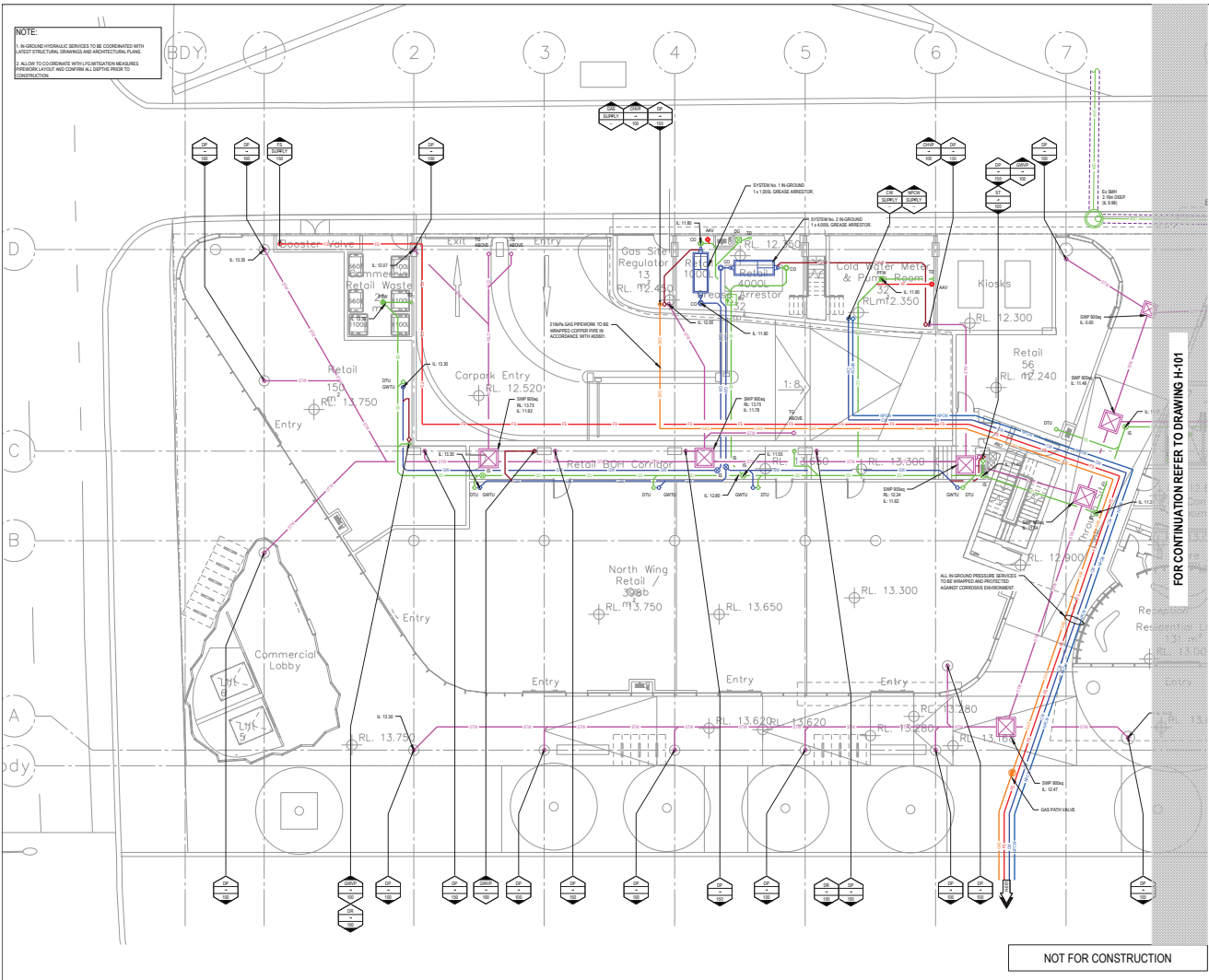
Suite E02, Level 6 87 Bock Street Pyrmont NSW 2009 Ph: 02 9550 5522 Fax: 02 9550 5523 A.C.N. 120 294 635 A.B.N. 92 07 985 010	<b>INSYNC SERVICES</b> HYDRAULIC SERVICES																		
Project Name: <b>Boomerang Tower</b> Client: <b>ECOVE GROUP</b> 30 Sydney Olympic Park NSW 2127 Ref: 20150077 Issue No: 02 10/04/2018 Issue Date: 10/04/2018																			
Design: <b>Stefling Project Solutions Pty Ltd</b> 88 Cherry Street Sydney NSW 2009 Ref: 20150077 Issue Date: 10/04/2018																			
Drawn: <b>Bales Smart Architects</b> 45 Bock Street Sydney NSW 2009 Ref: 20150077 Issue Date: 10/04/2018																			
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Revised</th> <th>By</th> <th>Check</th> <th>Appr.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10/04/2018</td> <td>Issue for tender</td> <td>BS</td> <td>SP</td> <td>SP</td> </tr> <tr> <td>2</td> <td>10/04/2018</td> <td>Issue for construction</td> <td>BS</td> <td>SP</td> <td>SP</td> </tr> </tbody> </table>		No.	Date	Revised	By	Check	Appr.	1	10/04/2018	Issue for tender	BS	SP	SP	2	10/04/2018	Issue for construction	BS	SP	SP
No.	Date	Revised	By	Check	Appr.														
1	10/04/2018	Issue for tender	BS	SP	SP														
2	10/04/2018	Issue for construction	BS	SP	SP														
<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>ISSUE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	ISSUE	DATE													
NO.	DATE	DESCRIPTION	ISSUE	DATE															
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NO.	DATE	DESCRIPTION	ISSUE	DATE															
<b>Boomerang Tower</b> 3 Olympic Boulevard Sydney Olympic Park																			
Title: <b>GROUND LEVEL INGROUND HYDRAULIC SERVICES PLAN - SHEET 2</b>																			
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<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 50%;">           Ref: 20150077            Issue No: 02            Issue Date: 10/04/2018         </td> <td style="width: 50%; text-align: right;">           Scale: 1:100            Drawing No: <b>H-101</b>            Original Size: <b>A</b> </td> </tr> </table>		Ref: 20150077 Issue No: 02 Issue Date: 10/04/2018	Scale: 1:100 Drawing No: <b>H-101</b> Original Size: <b>A</b>																
Ref: 20150077 Issue No: 02 Issue Date: 10/04/2018	Scale: 1:100 Drawing No: <b>H-101</b> Original Size: <b>A</b>																		

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**APPENDIX D FIGURE 14 – SERVICES NORTH TOWER**

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**NOTE:**  
 1. ALL GROUND HYDRAULIC SERVICES TO BE COORDINATED WITH ALL OTHER SERVICES (ELECTRICAL AND MECHANICAL) TO BE PROVIDED.  
 2. ALLOW FOR COORDINATION WITH ALL STATISTICAL REQUIREMENTS AND ALL OTHER SERVICES TO BE PROVIDED.  
 3. ALL SERVICES TO BE PROVIDED IN ACCORDANCE WITH ALL STATISTICAL REQUIREMENTS AND ALL OTHER SERVICES TO BE PROVIDED.



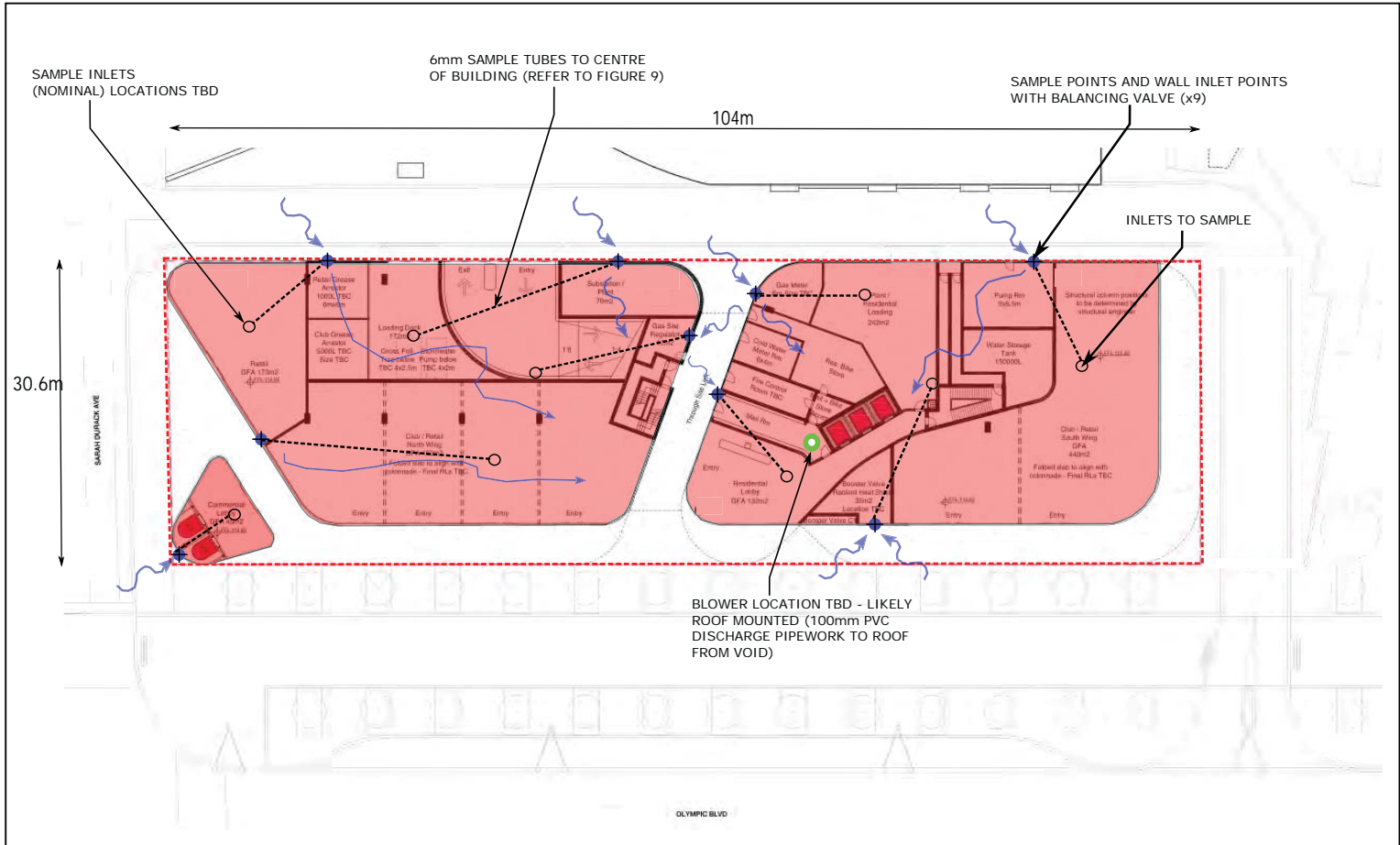
FOR CONTINUATION REFER TO DRAWING H-101

<p>INSYNC SERVICES        Suite 102 Level 4        100 Sydney Road        Sydney NSW 2000        Ph: (02) 922 5020        Fax: (02) 922 5022        A.C.N. 102 294 895        A.B.N. 92 294 895 018</p>																			
<p>Project Manager:  <b>ECOVE GROUP</b>        Sydney Olympic Park        NSW 2157        02 970 2944</p>																			
<p>Client:  <b>Stirling Project Solutions Pty Ltd</b>        100 Darling Street        Sydney NSW        NSW 2000        02 942 4277</p>																			
<p>Architect:  <b>Bales Smart Architects</b>        45 Balmoral Street        Sydney NSW        NSW 2000        02 955 8933</p>																			
<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20150716</td> <td>ISSUED FOR TENDER</td> </tr> <tr> <td>2</td> <td>20150716</td> <td>ISSUED FOR TENDER</td> </tr> </tbody> </table>	Rev	Date	Description	1	20150716	ISSUED FOR TENDER	2	20150716	ISSUED FOR TENDER	<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20150716</td> <td>ISSUED FOR TENDER</td> </tr> <tr> <td>2</td> <td>20150716</td> <td>ISSUED FOR TENDER</td> </tr> </tbody> </table>	Rev	Date	Description	1	20150716	ISSUED FOR TENDER	2	20150716	ISSUED FOR TENDER
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<p>COORDINATED REFERENCE DRAWINGS:</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	DATE															
NO.	DESCRIPTION	DATE																	
<p>BOOMERANG TOWER,        3 OLYMPIC BOULEVARD        SYDNEY OLYMPIC PARK</p>																			
<p>ISSUED FOR THE GROUND LEVEL INGROUND HYDRAULIC SERVICES PLAN - SHEET 1</p>																			
<p>20150077</p>	<p>Scale: 1:100        Sheet: A        ORIGINAL SIZE</p>																		

NOT FOR CONSTRUCTION

**Appendix H:**  
**HGGMP Proposed Monitoring Programme**

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<b>Legend</b> 50mm Drainage Cell and membrane barrier extent SITE BOUNDARY INLET SUBSLAB MONITORING POINT BLOWER LOCATION (TBD) AIR IN SAMPLE OPENING	DLA Environmental Services A Pacific Environmental company Sydney Office Phone (02) 9476 1765 Fax (02) 9476 1557 Maitland Office Phone (02) 4933 0001	<b>Title</b> Drainage Cell, Membrane Barrier Extent and Inlet Subslab Monitoring Points		
		<b>Client</b> ECOVE	<b>Project No.</b> DL 3620	<b>Figure No</b> 2
<b>Scale</b> As Shown	<b>Compiled</b> SB	<b>Revision</b> R00		

**Appendix I:  
HGGMP Proposed Indoor Air and Ambient Air Monitoring  
Programme**

---



**Table 53 - Summary of monitoring**

Item	Monitoring Location	Target parameters	Frequency	Threshold for action
1	Indoor air screening	TBC	Following remediation and construction works but prior to the occupancy certificate, at least three monitoring events over monthly intervals will be undertaken to encompass a range of weather/ barometric pressure conditions.	Methane thresholds for action are listed within Section 12.3. Indoor air screening criteria for toxic organic compounds will be based upon Site specific uses (such as retail and residential) and will be developed prior to the finalisation of the validation plan for construction.
			Following issuance of the occupancy certificate, long- term monitoring is conducted (every three months) for a period of four years with Interim Advices issued after each of the first three years. Monitoring will be undertaken to encompass a range of weather/ barometric pressure conditions.	
			After the issuance of the Section A SAS, the monitoring frequency may be able to be adjusted further – this will be detailed in the to-be-developed Long-Term Environmental Management Plan (LTEMP).	
2	Ambient air quality (locations TBC by Air Quality Consultant)	TBC	Following remediation and construction works but prior to the occupancy certificate, at least three monitoring events over monthly intervals will be undertaken to encompass a range of weather/ barometric pressure conditions.	TBC prior to the finalisation of the validation plan for construction.
			Following issuance of the occupancy certificate, long- term monitoring is conducted (every three months) for a period of four years with Interim Advices issued after each of the first three years. Monitoring will be undertaken to encompass a range of weather/ barometric pressure conditions.	
			After the issuance of the Section A SAS, the monitoring frequency may be able to be adjusted further – this will be detailed in the to-be-developed Long-Term Environmental Management Plan (LTEMP).	